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9/7/02

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re: Application of Giltso Choi, *et al.*

: Group Art Unit: 1655

Appln. No.: TBA

: Examiner: J. Einsmann

Filed: August 14, 2000

For: GENETIC SEQUENCES ENCODING SUBSTRATE-SPECIFIC  
DIHYDROFLAVANOL 4-REDUCTASE AND USES THEREFOR

Assistant Commissioner of Patents  
Washington, D.C. 20231

SIR:

**PRELIMINARY AMENDMENT**

Prior to examination of this application please make the enter the following amendments.

**In the claims:**

Cancel claims 1-21

Add new claims 22-26

--22. (new) 1. A method for producing a plant having a phenotype characterized by an increased production of pelargonidin derivatives comprising the steps of:

- (i) isolating a first nucleic acid according to SEQ ID NO: 1 encoding a dihydroflavanol-4-reductase;
- (ii) carrying out site specific mutagenesis on said first nucleic acid to produce a second nucleic acid wherein the codon for the Asn residue at position 134 has been mutated to a codon for Leu.
- (iii) introducing said second nucleic acid into a vector wherein said second nucleic acid is operably linked to a promoter;
- (iv) transforming a plant cell with said vector;
- (v) regenerating plants from one or more of said transformed plant cells;
- (vi) selecting a plant with the desired phenotype.

2. A method as recited in claim 1 wherein said first nucleic acid is from *Gerbera*.

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